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PatentIN THE CLAIMSAmendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer to the claimed and/or disclosed subject matter, and the applicant and/or assignee reserves the right to claim this subject matter and/or other disclosed subject matter in a continuing application.

Listing of Claims:

What is claimed is:

1. (Currently Amended): An image scanning method for a scanner ~~which has a preset constant calibration parameter located therein~~, comprising the steps of:
 - a. ~~providing a scanning object;~~
 - b. using an image capturing element to perform image capturing on ~~[[the]]~~ a scanning object;
 - c. using ~~[[the]]~~ a preset calibration parameter to perform compensation and calibration for the captured image; and
 - d. completing image scanning for the object and repeating the ~~step a~~ using an image capturing element for a subsequent scanning object.
2. (Currently Amended): The image scanning method of claim 1, further comprising wherein the scanner comprises:
 - ~~a holding board for holding the scanning object via a holding board thereon;~~
 - ~~an optical chassis having an image capturing element located therein for capturing the image of the scanning object~~ via an optical chassis comprising an image capturing element; and

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~~a control module having a read only memory (ROM) for storing a preset calibration parameter via a control module comprising a read only memory (ROM) and using the stored calibration parameter to perform compensation and calibration for the captured image.~~

3. (Currently Amended): The image scanning method of claim 2, wherein the holding the scanning object comprises holding the scanning object via the holding board is selectively made of comprising glass or acrylic material.

4. (Currently Amended): The image scanning method of claim 2, wherein the capturing the image of the scanning object comprises capturing the image of the scanning object via the image capturing element of the optical chassis [[is]] comprising a charge coupled device (CCD).

5. (Currently Amended): The image scanning method of claim 2, further comprising:

~~wherein the optical chassis further includes a linear light source, a plurality of reflection mirrors and a lens, the linear light source projecting on the scanning object via a linear light source to generate a reflecting image;~~

reflecting the reflected image via one or more which is reflected by the reflecting mirrors;
and

refracting the reflected image refracted through [[the]] a lens to form an image on the image capturing element.

6. (Currently Amended): The image scanning method of claim 2, further comprising
~~wherein the scanner further includes a driving means for moving the optical chassis along the holding board to scan for scanning the object via a driver.~~

7. (Currently Amended): The image scanning method of claim 2, wherein the storing the preset calibration parameter comprises storing the preset calibration parameter via the control module comprising control module is a selected system file.

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8. (Currently Amended): An image scanning method for a scanner, comprising the ~~steps of:~~

- a. performing a pre-scanning calibration to obtain a calibration parameter;
- ~~b. providing a scanning object;~~
- c. using an image capturing element to perform image capturing on ~~[[the]]~~ a scanning object;
- d. using the calibration parameter obtained at the performing of the pre-scanning calibration step a- to perform compensation and calibration for the captured image; and
- e. completing image scanning for the object; and
- ~~repeating the step b~~ f. performing one or more subsequent scanings of one or more subsequent scanning objects without performing a subsequent pre-scanning calibration.

9. (Currently Amended): The image scanning method of claim 8, further comprising wherein the scanner comprises:

- ~~a holding board for holding the scanning object via a holding board thereon;~~
- ~~an optical chassis having an image capturing element therein for capturing the image of the scanning object via an optical chassis comprising an image capturing element; and~~
- ~~a control module including a random access memory (RAM) for storing the calibration parameter obtained at the performing of the pre-scanning calibration step a- via a control module comprising a random access memory (RAM) and using the stored calibration parameter during scanning operation to perform compensation and calibration for the captured image.~~

10. (Currently Amended): The image scanning method of claim 9, wherein the holding the scanning object comprises holding the scanning object via the holding board is selectively made of comprising glass or acrylic material.

11. (Currently Amended): The image scanning method of claim 9, wherein the capturing the image of the scanning object comprises capturing the image of the scanning object via the image capturing element of the optical chassis ~~[[is]]~~ comprising a charge coupled device (CCD).

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12. (Currently Amended): The image scanning method of claim 9, further comprising:

~~wherein the optical chassis includes a linear light source, a plurality of reflection mirrors and a lens, the linear light source projecting on the scanning object via a linear light source to generate a reflecting image;~~

~~reflecting the reflected image via one or more which is reflected by the reflecting mirrors;~~
and

~~refracting the reflected image refracted through [[the]] a lens to form an image on the image capturing element.~~

13. (Currently Amended): The image scanning method of claim 9, further comprising
~~wherein the scanner further includes a driving means for moving the optical chassis along the holding board to scan for scanning the object via a driver.~~

14. (Currently Amended): The image scanning method of claim 9, wherein the storing the calibration parameter comprises storing the calibration parameter obtained at the performing of the pre-scanning calibration via the control module comprising ~~control module is a~~ selected system file.

15. (Currently Amended): An image scanning method for a scanner, comprising the steps of:

a. judging if a calibration parameter is stored required and calculating obtaining a calibration parameter if no calibration parameter is stored required;

~~b. providing a scanning object on a document holder if the outcome of the step a is positive;~~

c. using an image capturing element to perform image capturing on ~~[[the]]~~ a scanning object;

d. using the calibration parameter obtained at the judging step a to perform compensation and calibration for the captured image; and

e. completing image scanning for the object and repeating ~~steps b c~~ through d without further performing the judging step a.

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16. (Currently Amended): The image scanning method of claim 15, wherein the following steps are performed when the outcome of the judging step a is negative:

- a1. performing pre-scanning and calculating a calibration parameter; and
- a2. storing the calculated calibration parameter in the control module.

17. (Currently Amended): The image scanning method of claim 15, further comprising wherein the scanner comprises:

- ~~a holding board for holding the scanning object via a holding board thereon;~~
- ~~an optical chassis having an image capturing element therein for capturing the image of the scanning object via an optical chassis comprising an image capturing element; and~~
- ~~a control module for storing the calibration parameter via a control module, the scanner and using the stored calibration parameter to perform compensation and calibration for the captured image.~~

18. (Currently Amended): The image scanning method of claim 17, wherein the holding the scanning object comprises holding the scanning object via the holding board is selectively made of comprising glass or acrylic material.

19. (Currently Amended): The image scanning method of claim 17, wherein the capturing the image of the scanning object comprises capturing the image of the scanning object via the image capturing element of the optical chassis [[is]] comprising a charge coupled device (CCD).

20. (Currently Amended): The image scanning method of claim 17, further comprising:

~~wherein the optical chassis includes a linear light source, a plurality of reflection mirrors and a lens, the linear light source projecting on the scanning object via a linear light source to generate a reflecting image;~~

~~reflecting the reflected image via one or more which is reflected by the reflecting mirrors;~~
and

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refracting the reflected image refracted through ~~[[the]]~~ a lens to form an image on the image capturing element.

21. (Currently Amended): The image scanning method of claim 17, further comprising wherein the scanner further includes a driving means for moving the optical chassis along the holding board to scan for scanning the object via a driver.

22. (Currently Amended): The image scanning method of claim 17, wherein the storing the calibration parameter comprises storing the calibration parameter via the control module comprising control module is a selected system file.

23. (New): An article of manufacture, comprising: a storage medium having one or more instructions stored thereon that, if executed, result in:

using an image capturing element to perform image capturing on a provided scanning object;

using a preset calibration parameter to perform compensation and calibration for the captured image; and

completing image scanning for the object and repeating said using an image capturing element for a subsequent scanning object.

24. (New): The article of claim 23, wherein the instructions, if executed, further result in:

storing a preset calibration parameter via a control module comprising a read only memory (ROM); and

using the stored calibration parameter to perform compensation and calibration for the captured image.

25. (New): The article of claim 23, wherein the instructions, if executed, further result in:

storing a preset calibration parameter via a control module comprising a selected system file; and

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using the stored calibration parameter to perform compensation and calibration for the captured image.

26. (New): An article of manufacture, comprising: a storage medium having one or more instructions stored thereon that, if executed, result in:

performing a pre-scanning calibration to obtain a calibration parameter;

using an image capturing element to perform image capturing on a provided scanning object;

using the calibration parameter obtained at the performing of the pre-scanning calibration to perform compensation and calibration for the captured image;

completing image scanning for the object; and

performing one or more subsequent scanings of one or more subsequent scanning objects without performing a subsequent pre-scanning calibration.

27. (New): The article of claim 26, wherein the instructions, if executed, further result in:

storing the calibration parameter obtained at the performing of the pre-scanning calibration via a control module comprising a random access memory (RAM); and

using the stored calibration parameter during scanning operation to perform compensation and calibration for the captured image.

28. (New): The article of claim 26, wherein the instructions, if executed, further result in:

storing the calibration parameter obtained at the performing of the pre-scanning calibration via a control module comprising a selected system file; and

using the stored calibration parameter during scanning operation to perform compensation and calibration for the captured image.

29. (New): An article of manufacture, comprising: a storage medium having one or more instructions stored thereon that, if executed, result in:

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judging if a calibration parameter is stored and calculating a calibration parameter if no calibration parameter is stored;

using an image capturing element to perform image capturing on a provided scanning object;

using the calibration parameter obtained at the judging to perform compensation and calibration for the captured image; and

completing image scanning for the object and repeating the image capturing and the compensation without further performing the judging.

30. (New): The article of claim 29, wherein the instructions, if executed, further result in the following when the outcome of the judging is negative:

performing pre-scanning and calculating a calibration parameter; and

storing the calculated calibration parameter in the control module.

31. (New): The article of claim 30, wherein the instructions, if executed, further result in:

storing the calibration parameter via a control module; and

using the stored calibration parameter to perform compensation and calibration for the captured image.

32. (New): The article of claim 30, wherein the instructions, if executed, further result in:

storing the calibration parameter via a control module comprising a selected system file;
and

using the stored calibration parameter to perform compensation and calibration for the captured image.

33. (New): An apparatus, comprising:

means for performing image capturing on a provided scanning object;

means for using a preset calibration parameter to perform compensation and calibration for the captured image; and

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means for completing image scanning for the object.

34. (New): The apparatus of claim 33, further comprising:

means for storing a preset calibration parameter via a control module comprising a read only memory (ROM); and

means for using the stored calibration parameter to perform compensation and calibration for the captured image.

35. (New): The apparatus of claim 33, further comprising:

means for storing a preset calibration parameter via a control module comprising a selected system file; and

means for using the stored calibration parameter to perform compensation and calibration for the captured image.

36. (New): An apparatus, comprising:

means for performing a pre-scanning calibration to obtain a calibration parameter;

means for performing image capturing on a provided scanning object;

means for using the calibration parameter obtained at the performing of the pre-scanning calibration to perform compensation and calibration for the captured image;

means for completing image scanning for the object; and

means for performing one or more subsequent scanings of one or more subsequent scanning objects without performing a subsequent pre-scanning calibration.

37. (New): The apparatus of claim 36, further comprising:

means for storing the calibration parameter obtained at the performing of the pre-scanning calibration via a control module comprising a random access memory (RAM); and

means for using the stored calibration parameter during scanning operation to perform compensation and calibration for the captured image.

38. (New): The apparatus of claim 36, further comprising:

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means for storing the calibration parameter obtained at the performing of the pre-scanning calibration via a control module comprising a selected system file; and

means for using the stored calibration parameter during scanning operation to perform compensation and calibration for the captured image.

39. (New): An apparatus, comprising:

means for judging if a calibration parameter is stored and calculating a calibration parameter if no calibration parameter is stored;

means for performing image capturing on a provided scanning object;

means for using the calibration parameter obtained at the judging to perform compensation and calibration for the captured image; and

means for completing image scanning for the object and repeating the image capturing and the compensation without further performing the judging.

40. (New): The apparatus of claim 39, further comprising:

means for performing pre-scanning and calculating a calibration parameter when the outcome of the judging is negative; and

means for storing the calculated calibration parameter in the control module.

41. (New): The apparatus of claim 40, further comprising:

means for storing the calibration parameter via a control module; and

means for using the stored calibration parameter to perform compensation and calibration for the captured image.

42. (New): The apparatus of claim 40, further comprising:

means for storing the calibration parameter via a control module comprising a selected system file; and

means for using the stored calibration parameter to perform compensation and calibration for the captured image.

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